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                 CAS patent coverage enhanced to include exemplified
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NEWS
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NEWS
         JAN 28
                 USGENE now provides USPTO sequence data within 3 days
                 of publication
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         JAN 28
                 TOXCENTER enhanced with reloaded MEDLINE segment
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                 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                 U.S. National Patent Classification
                 IFICDB, IFIPAT, and IFIUDB enhanced with new custom
NEWS 14
         MAR 31
                 IPC display formats
NEWS 15
         MAR 31
                 CAS REGISTRY enhanced with additional experimental
NEWS 16
                 CA/CAplus and CASREACT patent number format for U.S.
         MAR 31
                 applications updated
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         MAR 31
                 LPCI now available as a replacement to LDPCI
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         MAR 31
                 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19
         APR 04
                 STN AnaVist, Version 1, to be discontinued
NEWS 20 APR 15
                 WPIDS, WPINDEX, and WPIX enhanced with new
                 predefined hit display formats
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                 EMBASE Controlled Term thesaurus enhanced
NEWS 22 APR 28
                 IMSRESEARCH reloaded with enhancements
NEWS 23 MAY 30
                 INPAFAMDB now available on STN for patent family
                  searching
NEWS 24
         MAY 30
                 DGENE, PCTGEN, and USGENE enhanced with new homology
                 sequence search option
NEWS 25
         JUN 06
                 EPFULL enhanced with 260,000 English abstracts
NEWS 26
         JUN 06
                 KOREAPAT updated with 41,000 documents
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         JUN 13
                 USPATFULL and USPAT2 updated with 11-character
                 patent numbers for U.S. applications
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         JUN 19
                 CAS REGISTRY includes selected substances from
                 web-based collections
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         JUN 25
                 CA/CAplus and USPAT databases updated with IPC
                 reclassification data
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         JUN 30
                 AEROSPACE enhanced with more than 1 million U.S.
                 patent records
NEWS 31
         JUN 30
                 EMBASE, EMBAL, and LEMBASE updated with additional
                 options to display authors and affiliated
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=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.21 0.21

FULL ESTIMATED COST

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

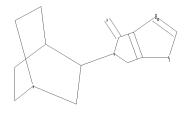
Please note that search-term pricing does apply when conducting SmartSELECT searches.

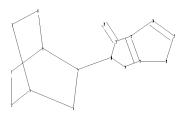
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chain nodes :
15
ring nodes :
1  2  3  4  5  6  7  8  10  11  12  13  14  16  17  18
chain bonds :
5-10  11-15
ring bonds :
1-2  1-6  1-7  2-3  3-4  4-5  4-8  5-6  7-8  10-11  10-14  11-12  12-13  12-16
13-14  13-18  16-17  17-18
exact/norm bonds :
1-2  1-6  1-7  2-3  3-4  4-5  4-8  5-6  5-10  7-8  10-11  10-14  11-12  11-15
12-13  12-16  13-14  13-18  16-17  17-18
isolated ring systems :
containing 1 : 10 :
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G1:C,O,S,N

Match level :

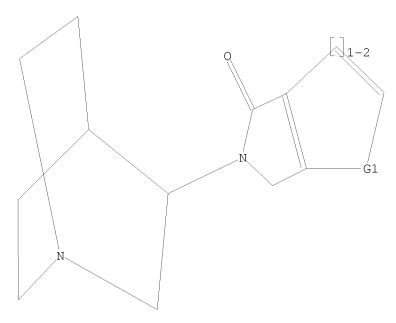
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:23:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 43 TO ITERATE

100.0% PROCESSED 43 ITERATIONS 4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 467 TO 1253
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 1H-Isoindole-1,3(2H)-dione, 2-(1-azabicyclo[2.2.2]oct-3-yl)-, (S)- (9CI)
MF C15 H16 N2 O2

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11 full

FULL SEARCH INITIATED 15:24:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 822 TO ITERATE

100.0% PROCESSED 822 ITERATIONS 81 ANSWERS

SEARCH TIME: 00.00.01

L3 81 SEA SSS FUL L1

=> file caplu

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 178.36 178.57

FILE 'CAPLUS' ENTERED AT 15:24:25 ON 24 JUL 2008
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=> file caplus COST IN U.S. DOLLARS

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION 0.48 179.05

FULL ESTIMATED COST

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FILE COVERS 1907 - 24 Jul 2008 VOL 149 ISS 4 FILE LAST UPDATED: 23 Jul 2008 (20080723/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s 13 full L4 9 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:734100 CAPLUS

DOCUMENT NUMBER: 149:79629

TITLE: Preparation of N, N'-diarylpyrimidinediamine for use as

protein kinase inhibitors

INVENTOR(S): Michellys, Pierre-Yves; Pei, Wei; Marsilje, Thomas H.;

Lu, Wenshuo; Chen, Bei; Uno, Tetsuo; Jin, Yunho;

Jiang, Tao

PATENT ASSIGNEE(S): IRM LLC, Bermuda

SOURCE: PCT Int. Appl., 199pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GΙ

PAT	ENT	NO.			KIND DATE					APPL	ICAT	ION I	DATE						
WO	2008073687					A2 20080619			1	WO 2	007-	JS85	20071120						
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		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,		
		KM,	KN,	KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,		
		MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NΙ,	NO,	NZ,	OM,	PG,	PH,	PL,		
		PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ТJ,	TM,	TN,		
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		IS,	ΙΤ,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,		
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG,	BW,		
		GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,		
		BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM											
PRIORITY	PRIORITY APPLN. INFO.:						US 2006-869299E						99P]	P 20	0061	208		
									US 2007-966449P						P 20070828				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 and R2 independently = halo, OR12, (un) substituted alkyl, alkynyl, etc.; or one of R1 or R2 = H; or R1 and R2 together form (un) substituted monocyclic or fused carbocyclic ring, aryl, heteroaryl, etc.; R3 = CN, SO2R12, (CR5)2CO2R12, etc.; R4 = H, NO2, halo, (un) substituted alkyl, alkenyl, etc.; R5 = H or alkyl; R6 = substituted N; R12 = H, alkyl, aryl, etc.], and their pharmaceutically acceptable salts, are prepared and disclosed as protein kinase inhibitors. Thus, e.g., II was prepared by amidation of 4-aminopiperidine-1-carboxylic acid tert-Bu ester with 2-chloro-4-isopropoxy-5-nitrobenzoyl chloride (preparation given), followed by coupling with vinylboronic acid di-Bu ester, cyclization, reduction, substitution with (2,5-dichloropyrimidin-4-yl)-[2-(propane-2-sulfonyl)phenyl]amine (preparation given), and deprotection. I were evaluated in BaF3-NPM-ALK cell assays and, in general, demonstrated IC50 values from 1 nM to 10 μ M.

IT 1032902-05-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N, N'-diarylpyrimidinediamine for use as protein kinase inhibitors)

RN 1032902-05-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

L4 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:224063 CAPLUS

DOCUMENT NUMBER: 148:285190

TITLE: Tricyclic compound derivatives useful in the treatment

of neoplastic diseases, inflammatory disorders and

immunomodulatory disorders

INVENTOR(S): Gregor, Vlad Edward; Liu, Yahua; Anikin, Alexey;

McGee, Danny Peter Claude; Mikel, Charles; McGrath, Douglas Eric; Vavilala, Goverdhan Reddy; Pickens, Jason C.; Kadushkin, Alexander; Thiruvazhi, Mohan Santhanam; Zozulya, Sergey; Vairagoundar, Rajendran; Zhu, Tong; Chucholowski, Alexander; Webb, Thomas R.; Jiang, Luyong; Gantla, Vidyasagar Reddy; Yan, Zheng

PATENT ASSIGNEE(S): Chembridge Research Laboratories, Inc., USA

SOURCE: PCT Int. Appl., 339pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	NO.			KIND DATE				APPL		DATE								
_		2008021369 2008021369							,	WO 2007-US18002									
WC																			
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							LA,												
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		BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	AP,	EA,	EP,	OA							
US	US 20080171769						2008	0717	US 2007-891604						20070810				
PRIORIT	RIORITY APPLN. INFO.:						US 2006-837652P								P 20060814				
OTHER S	OTHER SOURCE(S):						RPAT 148:285190												

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Provided are compds. of formula I or a stereoisomer, tautomer, salt, AΒ hydrate, or prodrug thereof, capable of modulating tyrosine kinases, compns. comprising the compds. and methods of their use. Compds. of formula I wherein each W1 - W6 are independently C and N, with the proviso that then W1 - W6 is N, the corresponding substituent X1 - X6 is absent; each X1 - X3, X5 and X6 are independently H, OH, halo, (un)substituted lower alkyl, (un) substituted lower alkoxy, (un) substituted acylamino, etc.; X4 is H, OH, halo, CF3, OCF3, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, etc.; Y1 and Y2 are independently (un)substituted (CH2)0-4 alkyl, CO, CS, C=NH, and derivs., SO2 and CF2; R1 is (un)substituted heterocyclyl, heterocyclylalkyl, heteroaryl, heteroarylalkyl, etc.; and their stereoisomers, tautomers, salts, hydrated and prodrugs thereof, are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their tyrosine kinase modulatory activity (data given).

IT 1008453-60-8P 1008453-64-2P

RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prophetic intermediate; preparation of tricyclic compound derivs. as tyrosine $\ensuremath{\mathsf{T}}$

kinase modulators useful in treatment and prevention of neoplastic, inflammatory, immune and other tyrosine kinase-related diseases)

RN 1008453-60-8 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 5,6-diamino-2-(3S)-1-azabicyclo[2.2.2]oct-3-yl-(CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 H_2N
 O
 N
 S

RN 1008453-64-2 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 5,6-diamino-2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-(CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 H_2N
 O
 R

IT 1008452-35-4 1008452-37-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of tricyclic compound derivs. as tyrosine kinase modulators useful in treatment and prevention of neoplastic, inflammatory, immune and other tyrosine kinase-related diseases)

RN 1008452-35-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 5-amino-2-(3S)-1-azabicyclo[2.2.2]oct-3-yl-6-nitro- (CA INDEX NAME)

Absolute stereochemistry.

RN 1008452-37-6 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 5-amino-2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-

nitro- (CA INDEX NAME)

$$H_2N$$
 O_2N

L4 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1262924 CAPLUS

DOCUMENT NUMBER: 144:369594

TITLE: Synthesis, structural and conformational study of

selected N-substituted phthalimides

AUTHOR(S): Iriepa, Isabel; Villasante, F. Javier; Galvez,

Enrique; Herrera, Antonio; Sanchez, Angel; Cano, Felix

Η.

CORPORATE SOURCE: Dpto. Quimica Organica, Universidad de Alcala, Alcala

de Henares, 28871, Spain

SOURCE: Central European Journal of Chemistry (2005), 3(4),

683-704

CODEN: CEJCAZ; ISSN: 1644-3624

URL: http://www.ingentaconnect.com/content/cesj/cejc/2

005/00000003/00000004

PUBLISHER: Central European Science Journals DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:369594

AB This paper synthesizes N-substituted phthalimides derived from nitrogen heterocycles as potential 5-HT4 ligands by using the Mitsunobu reaction. Conformational studies of some of the new compds. have been conducted using 1H and 13C-NMR spectroscopy. Proton and carbon resonances were achieved through the application of one-dimensional selective NOE, two-dimensional NMR techniques-homonuclear COSY-45, NOESY and heteronuclear 1H-13C HMQC correlated spectroscopy- and double resonance expts. The crystal structure of compound 1 was determined by X-ray diffraction.

IT 882430-91-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis, crystal structure, and conformation of N-substituted phthalimides)

RN 882430-91-3 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-(1-azabicyclo[2.2.2]oct-3-y1)- (CA INDEX NAME)

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1154550 CAPLUS

DOCUMENT NUMBER: 143:422508

Preparation of 2-(1-azabicyclo[2.2.2]oct-3-yl)-2,3-TITLE:

dihydroisoindol-1-one and 5-(1-azabicyclo[2.2.2]oct-3yl)-5,6-dihydro-furo[2,3-c]pyrrol-4-one derivatives

for the rapeutic use as ligands for the α 7

nicotinic acetylcholine receptor (α 7nAChR)

INVENTOR(S): Chapdelaine, Marc; Herzog, Keith J.

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Chapdelaine, Marc; Herzog,

Keith J.

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P	ATI	ENT I	. O			KIND DATE					APPL	ICAT	DATE								
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						A 20070221 A 20061113				NO 2006-5199											
PRIORI												004-									
												005-					0050				
OTHER	THER SOURCE(S):						CASREACT 143:422508; MARPAT 143:422508														

OTHER SOURCE(S): CASREACT 143:422508; MARPAT 143:422508

GΙ

AΒ The title quinuclidine derivs., such as I and II [R1 = H, halogen, aryl, heteroaryl, heterocyclyl], were prepared for use in pharmaceutical compns. as α 7nAChR ligands for treatment or prophylaxis of diseases or conditions in which activation of the α 7nAChR is beneficial. These quinuclidines are claimed for use in the treatment or prophylaxis of neurol. disorders, psychotic disorders or intellectual impairment disorders selected from Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss or attention deficit hyperactivity disorder, anxiety, schizophrenia, or mania, manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, jet lag, nicotine addiction, craving, pain, or ulcerative colitis. Thus, 2-[(R)-1-azabicyclo[2.2.2]oct-3-yl]-6-phenyl-2,3-dihydroisoindol-1-one(III) was prepared via an aromatic coupling reaction with 34% yield of 2-[(R)-1-azabicyclo[2.2.2]oct-3-yl]-6-bromo-2,3-dihydroisoindol-1-one withPhB(OH)2 using PdCl2(PPh3)2 and Cs2CO3 in DME/H2O/EtOH (1:1:1) and heating to 150° for 10 min in a Smith microwave. The prepared quinuclidine derivs. were assayed for α 7nAChR binding affinity and for P-glycoprotein mediated efflux.

IT 868235-52-3P, 2-[(R)-1-Azabicyclo[2.2.2]oct-3-y1]-6-bromo-2,3dihydroisoindol-1-one 868235-55-6P 868235-59-0P
868235-63-6P 868235-69-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of 2-quinuclidinyl-2,3-dihydroisoindol-1-ones and 5-quinuclidinyl-5,6-dihydro-furo[2,3-c]pyrrol-4-one derivs. for therapeutic use as ligands for $\alpha 7$ nicotinic acetylcholine receptor)

RN 868235-52-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-bromo-2,3-dihydro-(CA INDEX NAME)

RN 868235-55-6 CAPLUS
CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-5-bromo-2,3-dihydro(CA INDEX NAME)

Absolute stereochemistry.

RN 868235-59-0 CAPLUS
CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-4-bromo-2,3-dihydro(CA INDEX NAME)

Absolute stereochemistry.

RN 868235-63-6 CAPLUS CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-7-bromo-2,3-dihydro-(CA INDEX NAME)

Absolute stereochemistry.

RN 868235-69-2 CAPLUS CN 4H-Furo[2,3-c]pyrrol-4-one, 5-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2-bromo-5,6-dihydro- (CA INDEX NAME)

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ΙT
     868235-47-6P, 2-[(R)-1-Azabicyclo[2.2.2]oct-3-y1]-6-phenyl-2,3-
     dihydroisoindol-1-one 868235-48-7P 868235-49-8P
     868235-50-1P 868235-51-2P 868235-53-4P
     868235-54-5P 868235-56-7P 868235-57-8P
     868235-58-9P 868235-60-3P 868235-61-4P
     868235-62-5P 868235-64-7P 868235-65-8P
     868235-66-9P 868235-67-0P 868235-68-1P
     868235-70-5P 868235-71-6P 868235-72-7P
     868235-73-8P 868235-74-9P 868235-75-0P
     868235-76-1P 868235-77-2P 868235-78-3P
     868235-79-4P 868235-80-7P 868235-81-8P
     868235-82-9P 868235-83-0P 868235-84-1P
     868235-85-2P 868235-86-3P 868235-87-4P
     868235-88-5P 868235-89-6P 868235-90-9P
     868235-91-0P 868235-92-1P 868235-93-2P
     868235-94-3P 868235-95-4P 868235-96-5P
     868235-97-6P 868235-98-7P 868235-99-8P
     868236-00-4P 868236-02-6P 868236-04-8P
     868236-06-0P 868236-07-1P 868236-08-2P
     868236-09-3P 868236-10-6P 868236-11-7P
     868236-12-8P 868236-13-9P 868236-14-0P
     868236-15-1P 868236-16-2P 868236-17-3P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (preparation of 2-quinuclidiny1-2,3-dihydroisoindol-1-ones and
        5-quinuclidinyl-5,6-dihydro-furo[2,3-c]pyrrol-4-one derivs. for
        therapeutic use as ligands for \alpha7 nicotinic acetylcholine
        receptor)
RN
     868235-47-6 CAPLUS
CN
     1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-phenyl-
       (CA INDEX NAME)
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Absolute stereochemistry.

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RN 868235-48-7 CAPLUS
CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-5-(4-methyl-1-piperazinyl)- (CA INDEX NAME)
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RN 868235-49-8 CAPLUS

CN 4H-Furo[2,3-c]pyrrol-4-one, 5-(3R)-1-azabicyclo[2.2.2]oct-3-yl-5,6-dihydro-2-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-50-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(4-chlorophenyl)-2,3-dihydro- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-51-2 CAPLUS

CN Propanamide, N-[3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

RN 868235-53-4 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-54-5 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(4-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-56-7 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-5-phenyl-(CA INDEX NAME)

RN 868235-57-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-5-(3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-58-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-5-(4-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-60-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-4-phenyl-(CA INDEX NAME)

RN 868235-61-4 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-4-(3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-62-5 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-4-(4-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-64-7 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-7-phenyl-(CA INDEX NAME)

RN 868235-65-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-7-(3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-66-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-7-(4-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-67-0 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro- (CA INDEX NAME)

RN 868235-68-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-5-(4-morpholinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-70-5 CAPLUS

CN 4H-Furo[2,3-c]pyrrol-4-one, 5-(3R)-1-azabicyclo[2.2.2]oct-3-yl-5,6-dihydro-2-(3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-71-6 CAPLUS

CN 4H-Furo[2,3-c]pyrrol-4-one, 5-(3R)-1-azabicyclo[2.2.2]oct-3-yl-5,6-dihydro-2-(4-pyridinyl)- (CA INDEX NAME)

RN 868235-72-7 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-73-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-chloro-2,3-dihydro-(CA INDEX NAME)

Absolute stereochemistry.

RN 868235-74-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(3-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-75-0 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(3-chlorophenyl)-2,3-dihydro- (CA INDEX NAME)

RN 868235-76-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(8-quinolinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-77-2 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(1,3-benzodioxol-5-yl)-2,3-dihydro- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-78-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(2-chlorophenyl)-2,3-dihydro- (CA INDEX NAME)

RN 868235-79-4 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(2-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-80-7 CAPLUS

CN Benzeneacetamide, N-[3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-81-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(4-methyl-1-piperazinyl)- (CA INDEX NAME)

RN 868235-82-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(4-morpholinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-83-0 CAPLUS

CN Benzamide, 4-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]-N,N-dimethyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-84-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(6-quinolinyl)- (CA INDEX NAME)

RN 868235-85-2 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(5-quinolinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-86-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(methylsulfonyl)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-87-4 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[4-(methylsulfonyl)phenyl]- (CA INDEX NAME)

RN 868235-88-5 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(3-quinolinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-89-6 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(6-methoxy-3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-90-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(5-isoquinolinyl)- (CA INDEX NAME)

RN 868235-91-0 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(4-isoquinolinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-92-1 CAPLUS

CN Acetamide, N-[4-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-93-2 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

RN 868235-94-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[1-(phenylmethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-95-4 CAPLUS

CN Benzamide, 3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]-N,N-dimethyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-96-5 CAPLUS

CN Benzamide, 4-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]-N-ethyl- (CA INDEX NAME)

RN 868235-97-6 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(3,5-dimethoxyphenyl)-2,3-dihydro- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-98-7 CAPLUS

CN Benzamide, 3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868235-99-8 CAPLUS

CN Benzamide, 4-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]-N-(phenylmethyl)- (CA INDEX NAME)

RN 868236-00-4 CAPLUS

CN 1H-Isoindol-1-one, 6-(3-aminophenyl)-2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-02-6 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-(5-methoxy-3-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-04-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-(2,3-dihydro-1,4-benzodioxin-6-yl)-2,3-dihydro- (CA INDEX NAME)

RN 868236-06-0 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(1-methylethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-07-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-08-2 CAPLUS

CN Butanamide, N-[3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

RN 868236-09-3 CAPLUS

CN Benzamide, N-[3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-10-6 CAPLUS

CN Acetamide, N-[3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-11-7 CAPLUS

CN Benzamide, 3-[2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-3-oxo-1H-isoindol-5-yl]-N,N-diethyl- (CA INDEX NAME)

RN 868236-12-8 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(phenylmethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-13-9 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(4-morpholinylcarbonyl)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-14-0 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(1-piperidinylcarbonyl)phenyl]- (CA INDEX NAME)

RN 868236-15-1 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-16-2 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-6-[3-(dimethylamino)phenyl]-2,3-dihydro- (CA INDEX NAME)

Absolute stereochemistry.

RN 868236-17-3 CAPLUS

CN 1H-Isoindol-1-one, 2-(3R)-1-azabicyclo[2.2.2]oct-3-yl-2,3-dihydro-6-[3-(methylthio)phenyl]- (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:89070 CAPLUS

DOCUMENT NUMBER: 136:395318

TITLE: Novel Potent 5-HT3 Receptor Ligands Based on the

Pyrrolidone Structure: Synthesis, Biological

Evaluation, and Computational Rationalization of the

Ligand-Receptor Interaction Modalities

AUTHOR(S): Cappelli, Andrea; Anzini, Maurizio; Vomero, Salvatore;

Mennuni, Laura; Makovec, Francesco; Doucet, Edith; Hamon, Michel; Menziani, M. Cristina; De Benedetti, Pier G.; Giorgi, Gianluca; Ghelardini, Carla; Collina,

Simona

CORPORATE SOURCE: Dipartimento Farmaco Chimico Tecnologico, Universita

di Siena, Siena, 53100, Italy

SOURCE: Bioorganic & Medicinal Chemistry (2002), 10(3),

779-801

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:395318

Novel conformationally constrained derivs. of classical 5-HT3 receptor antagonists were designed and synthesized with the aim of probing the central 5-HT3 receptor recognition site in a systematic way. The newly-synthesized compds. were tested for their potential ability to inhibit [3H] granisetron specific binding to 5-HT3 receptor in rat cortical membranes. These studies revealed subnanomolar affinity in some of the compds. under study. The most potent ligand in this series was the quinuclidine derivative, which showed an affinity comparable with that of the reference ligand granisetron. The potential 5-HT3 agonist/antagonist activity of some selected compds. was assessed in vitro on the 5-HT3receptor-dependent [14C]quanidinium uptake in NG 108-15 cells. Both of the tropane derivs. tested in this functional assay showed antagonist properties, while the quinuclidine derivs. studied showed a full range of intrinsic efficacies. Therefore, the functional behavior of these 5-HT3 receptor ligands appears to be affected by the structural features of both the azabicyclo moiety and the heteroarom. portion. In agreement with the data obtained on NG 108-15 cells, investigations on the 5-HT3 receptor-dependent Bezold-Jarisch reflex in urethane-anesthetized rats confirmed the 5-HT3 receptor antagonist properties of several of the compds. Finally, several prevented scopolamine-induced amnesia in the mouse passive avoidance test suggestive of a potential usefulness in cognitive disorders for these compds. Qual. and quant. structure-affinity relation studies were carried out by theor. descriptors derived on a single structure and ad-hoc defined size and shape descriptors (indirect approach). The results showed to be useful in capturing information relevant to ligand-receptor interaction. Addnl. information derived by the anal. of the energy minimized 3-D structures of the ligand-receptor complexes (direct approach) suggested interesting mechanistic and methodol. considerations on the binding mode multiplicity at the 5-HT3 receptors and on the degree of tolerance allowed in the alignment of mols. for the indirect approach, resp.

IT 431079-01-5P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(novel potent 5-HT3 receptor ligands based on pyrrolidone structure in relation to synthesis and biol. evaluation and computational rationalization of ligand-receptor interaction modalities)

RN 431079-01-5 CAPLUS

CN 1H-Isoindol-1-one, 2-(1-azabicyclo[2.2.2]oct-3-y1)-2,3-dihydro-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

REFERENCE COUNT:

54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:511443 CAPLUS

DOCUMENT NUMBER: 117:111443

ORIGINAL REFERENCE NO.: 117:19443a, 19446a

TITLE: Synthesis of (R) – and (S) –3-aminoquinuclidine from 3-quinuclidinone and (S) – and (R) –1-phenethylamine

AUTHOR(S): Langlois, Michel; Meyer, Christine; Soulier, Jean

Louis

CORPORATE SOURCE: CERCOA, CNRS, Thiais, F-94320, Fr.

SOURCE: Synthetic Communications (1992), 22(13), 1895-911

CODEN: SYNCAV; ISSN: 0039-7911

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 117:111443

AB The synthesis of (R) - and (S) -3-aminoquinuclidine, an important building block for the synthesis of chiral 5-HT3 serotonin receptor antagonists, is described. The key reaction is the reduction by NaBH4 of the imine prepared from the 3-quinuclidinone and chiral (S) or (R)-1-phenethylamine.

IT 142999-65-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deprotection of)

RN 142999-65-3 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-(1-azabicyclo[2.2.2]oct-3-y1)-, (S)- (9CI) (CA INDEX NAME)

L4 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:571886 CAPLUS

DOCUMENT NUMBER: 113:171886

ORIGINAL REFERENCE NO.: 113:29153a, 29156a

TITLE: Preparation of N-(3-quinuclidinyl)benzamides and

analogs as psychoanaleptic agents

INVENTOR(S): Renaud, Alain; Langlois, Michel; Naylor, Robert John;

Naylor, Brenda

PATENT ASSIGNEE(S): Delalande S. A., Fr.; A. H. Robins Co., Inc.

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA]	ENT I	.00		KIND		DATE		APPLICATION NO.						DATE		
	EP	3533	 71			A1		1990	0207		EP	1988-	-4020	41		_	19880804
		R:	ΑT,	BE,	CH,	DE,	ES,	FR,	GB,	GR,	ΓI	C, LI,	LU,	NL,	SE		
	ZA	8905	797			A		1991	0327		ZA	1989-	-5797				19890728
	AU	89393	174			A		1990	0208		AU	1989-	-3917	4			19890801
	AU	62440	02			В2		1992	0611								
	DK	89038	318			A		1990	0205		DK	1989-	-3818				19890803
	US	5017	580			A		1991	0521		US	1989-	-3893	09			19890803
	JΡ	02256	6616			A		1990	1017		JΡ	1989-	-2027	10			19890804
	CA	13333	154			С		1994	1122		CA	1989-	-6076	50			19890804
PRIOR	ΙΤΊ	APP	LN.	INFO	. :						ΕP	1988-	-4020	41		Α	19880804
OTHER	SC	URCE	(S):			MARP	ΑT	113:	17188	36							
GI																	

$$NR^{1}C(:X)R$$
 $Q^{1}=$ R_{n}^{2} $Q^{1}=$ Q

$$Q^2 = N$$

$$NH_2 \qquad H_2N$$

$$OR^5 \qquad C1$$
OMe
$$N$$

AB The title compds. (I; R = Ph optionally having 1-3 C1-4 alkoxy and/or 1-2 halo substituents, Q1, Q2; R1, R3 = H, C1-4 alkyl; R2 = halo, NH2, NHMe, NMe2, C1-8 alkoxy, C1-4 alkanoyl; 4,5-R22 = CH:CHCH:CH; R4 = C1-8 alkyl; R5 = C1-4 alkyl; n = 1,2) were prepared Thus, (R)-(+)-3-aminoquinuclidine (preparation given) was stirred 18 h with 4-amino-5-chloro-2-methoxybenzoic acid in pyridine containing DCC to give, after acidification, title compound (R)-(+)-II.HCl which facilitated light avoidance learning and prevented scopolamine impairment of same in mice receiving 10 ng/kg b.d.

IT 123442-07-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of psychoanaleptic agents)

ΙI

RN 123442-07-9 CAPLUS CN 1H-Isoindole-1,3(2H)-dione, 2-(1-azabicyclo[2.2.2]oct-3-yl)-, (R)- (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:614399 CAPLUS

DOCUMENT NUMBER: 111:214399

ORIGINAL REFERENCE NO.: 111:35560h,35561a

TITLE: Preparation of anxiolytic N-[1-azabicyclo[2.2.2]oct-

3(R)-yl]benzamides and -thiobenzamides

INVENTOR(S): Renaud, Alain; Langlois, Michel; Naylor, Robert John;

Naylor, Brenda

PATENT ASSIGNEE(S): Delalande S. A., Fr.; A. H. Robins Co., Inc.

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	CENT 1	NO.			KIN	D	DATE		APPLICATION NO.					DATE
	EP	IP 311724			A1	_	1989	0419	EP	1987-	402321			19871016	
		R:	ΑT,	BE,	CH,	DE,	ES,	, FR,	GB,	GR, I	Γ, LI,	LU, NL,	SE		
	ZA	8807	601			A		1989	0726	ZA	1988-	7601			19881012
	DK	8805	761			Α		1989	0417	DK	1988-	5761			19881014
	ΑU	8823	749			A		1989	0420	AU	1988-	23749			19881014
	ΑU	6180	27			В2		1991	1212						
	JΡ	0119	9969			Α		1989	0811	JP	1988-	259257			19881014
	CA	1322	552			С		1993	0928	CA	1988-	580281			19881014
	US	5206	246			Α		1993	0427	US	1991-	735174			19910723
PRIOF	RITS	APP	LN.	INFO	. :					EP	1987-	402321		Α	19871016
										US	1988-	257632		В1	19881014
										US	1990-	609018		В1	19901031

OTHER SOURCE(S): CASREACT 111:214399; MARPAT 111:214399

GΙ

$$NR^{1}CAr = X$$
 R^{3}
 R^{40}
 R^{2}
 R

AB The title compds. [I; X = O, S; R1, R3 = H, alkyl; Ar = (substituted) Ph, e.g., Q; R2 = halo, 4,5-benzo, alkylcarbonyl, NH2, NHMe, NMe2,etc.; R4 = alkyl, Q1; n = 1, 2; R5 = alkyl] and their N-oxides, pharmaceutically acceptable salts, useful as anxiolytics, are prepared either via separating the R

enantiomer from a stereoisomeric mixture, or via reacting the appropriate 1-azabicyclo[2.2.2]octan-3(R)-amine with ArCO2H or its reactive derivative optionally followed by treatment with S, salt formation, etc. Benzoic acid II was condensed with 3-aminoquinuclidine in the presence of 1,1'-carbonyldiimidazole to give, after treatment with fumaric acid and separation of the racemate (separation procedure not described by author), I [R1 =

R3 = H, Ar = 4-amino-5-chloro-2-methoxyphenyl, X = 0,] (III) fumarate (1:1). By a method described by Craqley and Goodwin (1980) using mice, III at 0.1-10 mg/kg i.p. decreased significantly straightenings compared with the control.

IT 123442-07-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate for anxiolytics)

RN 123442-07-9 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-(1-azabicyclo[2.2.2]oct-3-yl)-, (R)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:16523 CAPLUS

DOCUMENT NUMBER: 86:16523

ORIGINAL REFERENCE NO.: 86:2689a,2692a

TITLE: Synthesis of 2,2,6,6-tetramethyl quinuclidines with

functional substituents in the quinuclidine nucleus

AUTHOR(S): Levkoeva, E. I.; Yakhontov, L. N.

CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im.

Ordzhonikidze, Moscow, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (7),

927-34

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 86:16523

GΙ

AB Quinuclidines I and II were prepared Hydrolysis of piperidine acetate III gave 71.5% amide, which was reduced to give 81.4% hydroxyamide IV. The tosylate of IV was prepared in pyridine and treated with K2CO3 to give 30% V and 18% VI; VI was successively treated with PBr3 and cyclized to give 15% I. Several other tetramethylpiperidines were also prepared

IT 61171-66-2P

RN 61171-66-2 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-(6,6,7,7-tetramethyl-1-azabicyclo[2.2.2]oct-3-yl)-, monohydrobromide (9CI) (CA INDEX NAME)

• HBr

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ENTRY SESSION

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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